



"The Metric Commission has granted use of the National Symbol for Metric Conversion"

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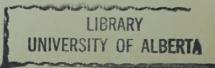
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Underline the greater number in each pair.

a	b	С	d
1. 44, 83	36, 61	88, 71	45, 43
<b>2.</b> 361, <u>532</u>	896, 137	765, 675	321, 609
<b>3.</b> 1387, 125	1465, 4615	1191, 1911	3553, 3335

4. Write each set of numbers from smallest to largest.

a	34, 53, 16, 79	16,	34,	53	79
b	137, 435, 241, 739	137	241,	435,	739
С	462, 9, 48, 136	9,	48,	136,	462
d	165, 651, 156, 516	156,	165	516,	651
е	3232, 2332, 2233, 3322	2233	2332	3232	3322

5. Six different numbers can be written with three different digits. Write six different numbers for each set.

Example	a	b	С	d
1, 3, 5	6, 1, 2	5, 3, 2	8, 7, 9	4, 9, 1
135	612	325	978	194
513	216	235	789	149
351	126	523	897	419
315	261	532	987	941
153	621	352	879	914
531	162	253	798	491

6. Write each set of numbers in problem 5 from smallest to largest.

Ex.	135	153	315	351	513	531
а	126	162	216	261	612	621
b	235	253		The same of the sa		532
C	789	798	879	897	978	987
d	149	194	419	491	914	941

1. What is the value of each digit?

Example: 235 467 819  $2 \times 100 = \frac{200}{}$  $\times 100 = 400$ 235 819 805 275 416  $8 \times 100 = 800$  $\times 100 = 400$  $2 \times 100 = 200$ 416 805

#### 2. Complete.

a 4632 = 4 thousands, hundreds, 3 tens, 2 ones

b 6598 = \_\_\_\_ thousands, \_\_\_\_ hundreds, \_\_\_\_ tens, \_\_\_ 8 ones

c 1037 = \_\_\_\_ thousands, \_\_\_\_ hundreds, \_\_\_\_ tens, \_\_\_\_ ones

#### 3. Write the numeral.

a Six thousand five hundred twenty-six

6526

b Forty thousand seven hundred forty-one

40 741

c Two hundred twenty thousand eighty-nine

220 089

#### 4. Write the largest and the smallest number you can with the digits shown.

	largest	smallest		largest	smallest
a 3,8,1	831	138	<b>b</b> 3,1,3,1	3311	, 1133
<b>c</b> 7,1,5,2	7521	, 1257	d 1,2,9,9,9	99 921	, 12 999
e 1,1,2,1	2111	1112	f 9,9,1,9,1	99911	11999

Write the number that is more than or less than the number given.

а

1. 10 more than 436 446

2. 10 more than 891 901

b

100 less than 436 336

100 less than 891 791

C

100 more than 436 <u>536</u>

100 more than 891 991

100 more than 107 207

Write the largest and the smallest number possible, using the four digits named.

1 Three seven six four

1) Three, seven, six, four

2 Six, five, three, six

3) Seven, seven, four, one

largest

smallest

7643

3467

6653

3566

7741

1477

Underline the larger number in each pair.

(4) 655, 565

(5) 55, 66

(6) 665, 656

(7) 6656, 6566

(8) 6555, 5556

9 65, 66

Write the numbers in each set in order from least to greatest.

(10) 373, 733, 337, 73

73

337

373

733

(11) 2525, 5522, 2552, 5225

2525

2552

5225

5522

(12) 1001, 1100, 1010, 1101

1001

1010

1100

1101

Draw a line to the word that names the value of the digit 3 in each numeral.

(14) 224 388

(13) 463 529 -

(15) 356 100

(16) 201 537

(17) 740 103

18) 536 666

- ones

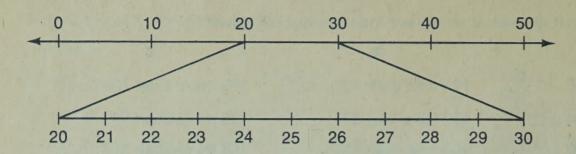
tens

hundreds

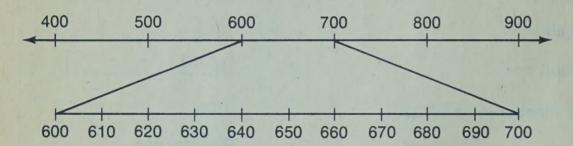
thousands

ten-thousands

hundred-thousands



- 1. Is 22 closer to 20 or 30? 20
- 2. Is 29 closer to 20 or 30? 30
- 3. Is 26 closer to 20 or 30? 30
- 4. Is 37 closer to 30 or 40? 40
- 5. Is 84 closer to 80 or 90? 80
- 6. Is 53 closer to 50 or 60? 50



- 7. Is 630 closer to 600 or 700? 600
- 8. Is 610 closer to 600 or 700? 600
- 9. Is 689 closer to 600 or 700? 700
- 10. Is 671 closer to 600 or 700? 700
- 11. Is 658 closer to 600 or 700? 700
- 12. Is 649 closer to 600 or 700? 600

Write the number that is halfway between each pair.

- 13. a 20 and 30 25
- 14. a 50 and 60 55
- **b** 200 and 300 250

**b** 500 and 600 550

b

- c 2000 and 3000 2500
- c 5000 and 6000 5500

d

Round each number to the nearest ten, hundred, thousand, and ten-thousand.

26 391 14 638 22 579 46 567 46570 14 640 26 390 22 580 15. Nearest ten 26 400 46600 14 600 16. Nearest hundred 47 000 5 000 26 000 23 000 17. Nearest thousand 30 000 10 000 18. Nearest ten-thousand

	11 1 11							
٦.	Underline	the n	umbers	VOU	would	round	up to	70

a 68 b

62

C

65

69

63

66

432

406

475

450

493

425

a

2765

2098

2490

2600

2984

2497

#### 4. Round each number to the nearest thousand.

a 2056 2000

**b** 8905 9000

c 7503 \_\_\_

d 5421 5000 e 7089 7000

4498 4000

#### What number is halfway between

(1) 0 and 100? \_\_\_\_\_50

(2) 400 and 500? 450

(3) 300 and 400? 350

(4) 3000 and 4000? 3500

(5) 7000 and 8000? 7500

#### Round to the nearest ten.

(7) 47

(8) 62

(9) 45

(10) 67

(11) 12

50

50

10

#### Round to the nearest hundred.

(12) 380

(13) 617

(14) 593

(15) 465

(16) 450

400

600

600

500

500

#### Round to the nearest thousand.

(17) 3500

(18) 6500

(19) 7098

(20) 9173

8762

4000

7000

7000

9000

9000

1. If you wrote the smallest 4-digit number you could, which digits would you use?

1000

2. Attendance at the home games this year is expected to be about 3400. Each roll has 1000 tickets.

How many rolls should we buy this year?

4 rolls

3. It takes 550 books for Tuesday's reading program. There are 100 books per carton. How many cartons are needed?

6 cartons

4. Jo needs 43 pens.
There are 10 pens in each box.
How many boxes are needed?

5 boxes

Japan is an island country in the Pacific Ocean two thousand ninety-two kilometres in length. It has a coast line twenty-six thousand five hundred kilometres long. A great deal of Japan is covered by mountains, many of which are volcanic. There are forty active but dormant volcanoes in Japan. The capital city of this country is Tokyo, which has a population of over eleven million people. Tokyo has always been a large city. In the year 1613, it had a population of one hundred fifty thousand people.

5. Read the story.

Write a numeral answer for each question.

a What is Japan's length?

b How long is its coast line?

c How many active volcanoes does Japan have?

d What is Tokyo's present population?

e What was Tokyo's population in 1613?

2092 km

40

11000000

150,000

1. Round each number. Estimate the total for each pair of items.

40¢ a 39¢ train track 87¢ glider estimate 130¢ or \$1.30

b 63¢ paints 49¢ brush estimate 1104 or \$1.10

c 21¢ paper 43¢ pens

d 55¢ puzzle 93¢ book

estimate 604 or \$0.60

estimate 1504 or \$1.50

604

Round each number and estimate the sum.

36 40 + 49 \_ 50 90

87 90

+ 77 \_ 80\_

58 60 + 39 100

76

+ 81

80

160

b

+ 94 90

19

20

d

78 80

Write the exact sums.

4. 10

3.

b 14

C 23

76

18

f 69 92

5. 63 + 70

64

+ 36

100

+ 56 29 + 64

40

+ 96

+ 88

33 + 43

+ 20 36 + 96 Estimate each sum. Then find the exact sum.

1.		Estimate	Exact
a	48 + 6	60	54
b	51 + 6	60	57
C	53 + 6	60	59
d	55 + 6	70	61
е	57 + 6	70	63

2.		Estimate	Exact
a	68 + 16	90	84
b	71 + 16	90	87
C	73 + 16	90	89
d	75 + 16	100	91
е	77 + 16	100	93

3.		Estimate	Exact
a	15 + 10	30	25
b	41 + 16	60	57
С	76 + 16	100	92
d	88 + 14	100	102
е	64 + 79	140	143
f	89 + 57	150	146

4.		Estimate	Exact
а	23 + 48	70	71
b	37 + 51	90	88
C	19 + 38	60	57
d	12 + 82	90	94
е	39 + 54	90	93
f	72 + 23	90	95

Add.

Write each sum.

a

2. + 92

3. + 320 

4. + 974 

5. +287 b

+ 79

+ 902

+280

+ 214

+ 31 4.69

C

+205

+529 d

+ 68 + 80 

+210

+ 655  + 26

e

+ 558 74-5

Write exact answers without copying the problems.

a

		~
6.	+	10
	245	255
	263	273
	109	119
	587	597

b

+	40
331	371
341	381
351	391
361	401

C

63	
49	
27	
20	

+ + 

d

10!1 

**7.** +

Estimate the answer. Then find the exact answer.

1. King School has 116 girls and 109 boys. How many students is this?

200 116 +109 225 students

2. Ada spent \$1.35 for ribbon and \$2.28 for thread. How much did she spend in all?

\$3.00 \$1.35 \$2.28 \$3.63

3. John read one book of 234 pages and one of 89 pages. How many pages did he read? 300 234 +89 323 pages

4. Amy delivered 367 calendars one day and 284 another. How many calendars did she deliver?

700 367 +284 651 Calendars

Round each number to the nearest ten and estimate the sums.

236 240 541 540 (1760)

d

265

709

270

710

Add.

1 300 + 500 800

(2) 300 + 217 517 3 133 + 214 <del>34</del>7 4 4 3 1 + 5 3 0 <del>9 6 1</del> 5 442 + 525 **967** 

6 115 + 866 <del>981</del>

7 644 + 318 <del>962</del> 8 151 + 819 9 337 + 549 886 10 118 + 939 1057

11) 284 + 527 811 12 6 4 5 + 3 9 6

(3) 976 + 944 14 466 + 949

15 849 + 572 1421 1. Round each number. Estimate the difference for each pair of items.

a 78¢ socks

42¢ laces

**b** 99¢ shampoo

67¢ soap

100%

estimate\_

d \$1.93 stapler

\$1.90

\$0.53 envelopes

**c** \$1.69 stamps

\$0.75 paper clips

estimate \$1.20

estimate \$1.10

d

estimate 30¢

Round each number and estimate the difference.

a

88 90

28 30

78 80

- 27 <u>30</u>

- 89 <u>90</u>

94 90

C

31 30 15 \_20

60 63 93

- 48

**- 29 30** 

60

- 17 \_20

97 /00

- 74 <u>70</u>

30

30

Write the exact difference.

4. 98

3.

b

82

C

35

d

79

е

43

f 67

41 5.

84 - 41

57 \_ 44 48

- 34 14

64 - 23

75 11

8 1

59 13

95 90 99

27

90

78

64 17 Find each difference. Write the extra problems requested. Answers will vary.

1. Write three more problems that do not require renaming.

237 - 124 316 - 205

479 -238 241

614 -502 112

d

725 -611 114

2. Write three more problems that require renaming tens as ones.

753 - 436 - 317

292 - 185 872 -369 503

536 -417 119

192 -<u>111</u> 15

3. Write three more problems that require renaming hundreds as tens and tens as ones.

251 - 184 936 -749 187

324 -235 89 763 -378 385

Find the differences.

а

4. 655 - 307 - 348 b

744 - 352 <del>392</del> C

887 - 513 **374**  d

878 - 506 - 372 е

646 - 344 - 302

**5.** 691 - 143

548

733 - 194 **539**  701 - 435 266 400 - 214 - 186 975 - 386 - **589** 

Subtract.

1 678 - 354 - 324 2 750 - 238 512 3 350 - 147 - 203  $\begin{array}{r}
462 \\
-280 \\
\hline
-182
\end{array}$ 

5 623 - 561 - 62 6 314 - 197

7 605 - 148 <del>451</del> 8 700 - 236 <del>464</del>

C

Bus Routes between Cities			1. How much longer is	
Route	City		Kilometres	route E than B?
A B C D E	Moncton to Sh Calgary to Reg Charlottetown Winnipeg to F Vancouver to B Ottawa to Hali	gina to Fredericton lin Flon Banff	975 764 373 893 929 1439	-764 165 km
2. How much longer is route D than C?  893  -373  520 km  3. How much longe route A than C?  975  -313  602 km		•	4. How much longer is route F than B?  1439  -764  675 km	

Estimate the difference.

Then find the exact difference.

Is your answer reasonable?

5. 
$$539$$
  $977$   $404$   $559$   $905$   $-449$   $-508$   $-198$   $-175$   $-265$   $-449$   $-600$   $-198$   $-175$   $-198$   $-175$   $-198$   $-175$   $-198$   $-175$   $-198$   $-1$ 

Find the difference. Add to check.

a

6.	579	<u>435</u>	671	<u>490</u>	801	234
	- 144	+ 144	- 181	+ 181	- 567	+ 567
	<u>435</u>	<u>579</u>	<u>4-90</u>	<u>671</u>	234	801
7.	743 - 259 484	484 + 259 <u>743</u>	421 - 164 <b>257</b>	257 + 164 421	262 - 184 - 78	+ 184 262

b

Add.

Subtract.

Compute. Watch the signs.

1. Complete each statement.

a

0 0

b

C

d

2 rows of 4 each

3 rows of 5 each

4 rows of 6 each

0000

$$5 + 5 + 5 = 15$$

$$6 + 6 + 6 + 6 = 24$$

C

$$2 \times 4 = 8$$

$$3 \times 5 = 15$$

$$4 \times 6 = 24$$

$$7 \times 4 = 28$$

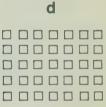
2. Write a multiplication fact for each array.

а



b





 $5 \times 7 = 35$ 

$$2 \times 8 = 16$$

9 × 2 = 18

Complete each chart.

3.	Count by fours.	4	8	12	16	20	24	28	32	36
4.	Count by sixes.	6	12	18	24	30	36	42	48	54
5.	Count by nines.	9	18	27	36	45	54	63	72	81

Multiply.

а

**b** 8

8 × 3 6

 $\begin{array}{ccc}
6 & & & \\
\times & 2 & & \times \\
\hline
12 & & & \\
\end{array}$ 

f 5

 $\times$  7

5 × 9 <u>45</u> **h**0
× 5

7. 3 × 4 12.

× 2

2

8 × 7

5 × 2 // 3 × 6 /8 9 × 1 <del>9</del>

8. 7 × 6 <del>42</del> 6 × 0 O

8 × 2 5 × 8 1 × 7 4 × 6 Practise.

1. 7 × 6 42 2. 6 × 9 5 <del>4</del> 3. 4 × 5

4. 3 × 7 21 5. 9 × 9

 $\begin{array}{c}
 6. & 8 \\
 \times 4 \\
 \hline
 32
\end{array}$ 

7. 7 × 8 56

Multiply.

5 8 × 6

7 8 × 5 + 40

8 7 × 0

(13) 8 × 9

Solve each problem.

6 windows on each floor.4 floors in the building.How many windows?

(16) 3 shelves in the bookcase.8 books on each shelf.How many books in all?

7 days a week.7 km each day.How many kilometres in all?

(18) 3 trips up the steps.3 boxes each trip.How many boxes in all?

6 tries to hit the ball.9 boys on a team.How many tries in all?

20 4 birds in each cage.4 cages.How many birds in all?

21) 7 hours at work.
4 trips each hour.
How many trips?

28

22 3 turns for each girl.9 girls take turns.How many turns in all?

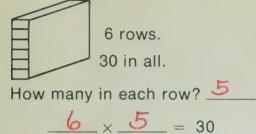
1.



How many in each row?

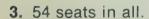
$$4 \times 3 = 12$$

2.



Complete each sentence.

а



6 rows.

How many in each row?

$$6 \times \underline{9} = 54$$

4. 27 in all.

9 rows.

How many in each row?

$$9 \times \underline{3} = 27$$

b



\_\_\_\_\_ 15 in all.

How many in each row? 5

$$3 \times \underline{5} = 15$$



$$\frac{4}{2} \times \frac{7}{2} = \frac{28}{28}$$

b

16 girls.

4 girls in each car.

How many cars needed?

$$4 \times 4 = 16$$

35 in all.

7 rows.

How many in each row?

$$7 \times \underline{5} = 35$$

Write the missing factor to complete each sentence.

5. 
$$2 \times \frac{5}{5} = 10$$

**6.** 
$$8 \times \frac{7}{} = 56$$

7. 
$$5 \times 6 = 30$$

8. 
$$3 \times 3 = 9$$

9. 
$$\frac{7}{2} \times 7 = 49$$

b

$$\frac{8}{8} \times 3 = 24$$

$$7 \times \frac{4}{} = 28$$

$$2 \times 8 = 16$$

$$3 \times 7 = 21$$

C

$$4 \times 2 = 8$$

$$\frac{4}{\times}$$
 × 5 = 20

$$6 \times \underline{\hspace{1cm}} = 6$$

$$5 \times \overline{7} = 35$$

$$5 \times 8 = 40$$

Find the unknown factor in a. Divide to find the answer in b.

а

1. 12 in all. 3 rows.

How many in each row?

3× 4 = 12

2. 42 in all.

7 in each row.

How many rows?

 $6 \times 7 = 42$ 

0000

0000000

b

12 in all.

3 rows.

How many in each row?

12 ÷ 3 = 4

42 in all.

7 in each row.

How many rows?

42 ÷ 7 = 6

Complete.

а

- 3.  $20 \div 4 = \frac{5}{2}$  because  $\frac{5}{2} \times 4 = 20$
- **4.**  $15 \div 5 = 3$  because  $3 \times 5 = 15$
- 5.  $24 \div 3 = \frac{8}{2}$  because  $\frac{8}{2} \times \frac{3}{2} = \frac{24}{2}$
- 6.  $27 \div 9 = 3$  because  $3 \times 9 = 27$
- 7.  $42 \div 6 = \frac{7}{1}$  because  $\frac{7}{1} \times \frac{6}{1} = \frac{42}{1}$

b

- $12 \div 6 = 2$  because  $2 \times 6 = 12$
- $8 \div 2 = \frac{4}{10}$  because  $\frac{4}{10} \times \frac{2}{10} = 8$
- $36 \div 4 = 9 \text{ because } 9 \times 4 = 36$
- $28 \div 7 = \frac{4}{100} \text{ because } \frac{4}{100} \times \frac{7}{100} = \frac{28}{100}$
- $56 \div 8 = \frac{7}{2}$  because  $\frac{7}{2} \times \frac{8}{3} = \frac{56}{3}$

Divide.

- 8. 21 ÷ 3 = 7
- 35 ÷ 5 = 7
- 16 ÷ 4 = <u></u>
- 48 ÷ 8 = 6

- 9. 36 ÷ 6 = 6
- 36 ÷ 9 = 4
- 63 ÷ 9 = 7

- **10.** 24 ÷ 8 = 3
- 16 ÷ 2 = 8
- 21 ÷ 7 = **3**
- 45 ÷ 9 = 5

- **11.** 56 ÷ 7 = 8
- 40 ÷ 5 = 8
- 8 ÷ 8 = \_\_\_\_
- 72 ÷ 8 = 9

Write the division sentence and find the answer.

а

**12.** 48 in all.

6 at each table.

How many tables?

48-6=8

b

32 in all.

8 on each page.

How many pages?

32 ÷ 8=4

#### Divide.

(1) **a** 
$$12 \div 3 = 4$$

**b** 
$$16 \div 4 = 4$$

c 
$$6 \div 2 = 3$$

d 
$$5 \div 1 = 5$$

$$f \ 8 \div 4 = 2$$

g 
$$15 \div 3 = 5$$

h 
$$4 \div 4 = 1$$

(4) **a** 
$$56 \div 7 = 8$$

**c** 
$$63 \div 9 = 7$$

**e** 
$$81 \div 9 = 9$$

g 
$$48 \div 6 = 8$$

i 
$$49 \div 7 = \frac{7}{}$$

#### Solve each problem.

- 5 12 in all.
  4 in each set.
  How many sets?
- 7 32 in all.8 in each box.How many boxes?

(2) **a** 
$$21 \div 3 =$$

**c** 
$$32 \div 4 = 8$$

d 
$$14 \div 7 = 2$$

**e** 
$$45 \div 5 = 9$$

$$f 28 \div 4 = 7$$

g 
$$18 \div 2 = 9$$

h 
$$24 \div 8 = 3$$

$$i 12 \div 2 = 6$$

**b** 
$$24 \div 3 = 8$$

**c** 
$$36 \div 4 = 9$$

**d** 
$$18 \div 6 = 3$$

**e** 
$$30 \div 6 = 5$$

$$f 27 \div 9 = 3$$

g 
$$35 \div 7 = 5$$

h 
$$9 \div 1 = 9$$

$$j \ 40 \div 8 = 5$$

**b** 
$$64 \div 8 = 8$$

**d** 
$$36 \div 6 = 6$$

$$\mathbf{f} \quad 42 \div 7 = \underline{\phantom{0}}$$

**h** 
$$63 \div 7 = 9$$

$$j 72 \div 9 = 8$$

- 6 27 in all.3 in each day.How many days?
- 8 72 in all.8 each trip.How many trips?

Write the answer to each problem.

a

1. John had 4.

Kay had 0.

How many in all?

4

2. There were 0 cats.

There were 0 dogs.

How many cats and dogs?

3. There are 3 boxes.

Each box has 1 book.

How many books?

3

b

Mary's score was 3.

Robert's score was 3.

What was the difference?

0

4 were right.

0 were wrong.

How many more right than wrong?

4

Each shelf has 0 books.

There are 3 shelves.

How many books?

0

Compute.

а

b

d

4. 
$$5 + 0 = 5$$

$$3 \times 0 =$$

$$12 - 0 = 12$$

$$0 \times 7 = \bigcirc$$

$$0 \div 7 =$$

6. 
$$0 + 8 = 8$$

$$4 - 0 = 4$$

$$0 \div 8 = 0$$

$$9 - 1 = 8$$

$$6 - 1 = 5$$

$$1 \times 8 = 8$$

$$5 \times 1 = 5$$

$$8 + 0 = 8$$

$$1 \times 7 = 7$$

$$7 - 0 = 7$$

$$6 + 1 = 7$$

$$8 - 1 = 7$$

$$5 - 0 = 5$$

Multiply.

а

b

d

$$\frac{3}{8}$$

f

Divide.

a

d

4. 
$$40 \div 8 = 5$$

3. 24 ÷ 6 = 4

$$14 \div 7 = 2$$

$$27 \div 9 = 3$$

5. 
$$72 \div 9 = 8$$

Answer each question.

6. a 5 aunts, 5 uncles, 5 cousins.

How many people?\_\_\_\_\_15

**b** 7 mothers, 7 fathers, 7 sisters, 7 brothers.

How many people? 28

c 8 teachers, 8 doctors, 8 farmers, 8 sailors.

How many people? 32

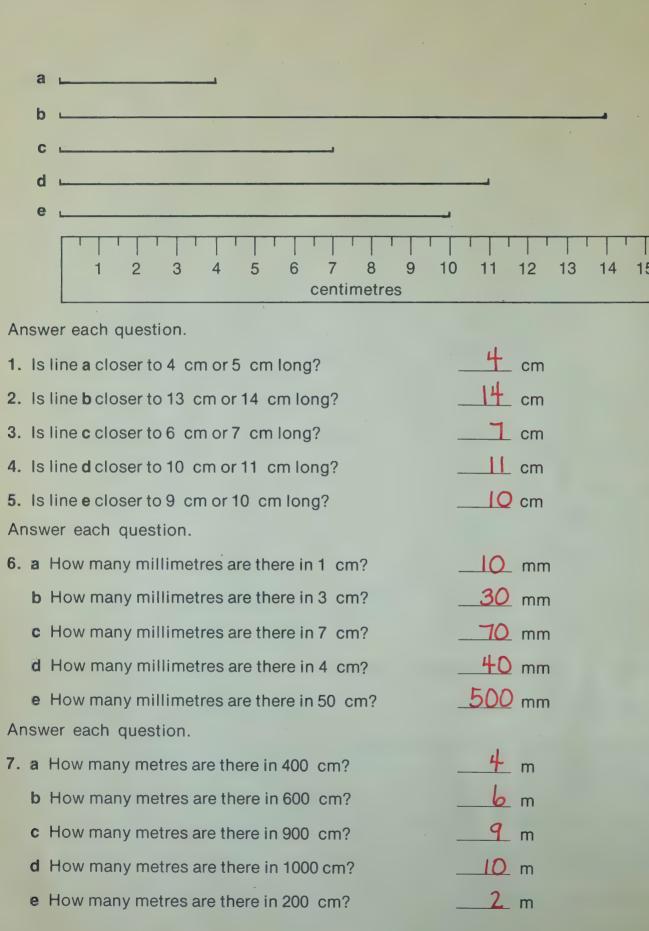
7. a 36 hours flying time. 9 hours for each flight.

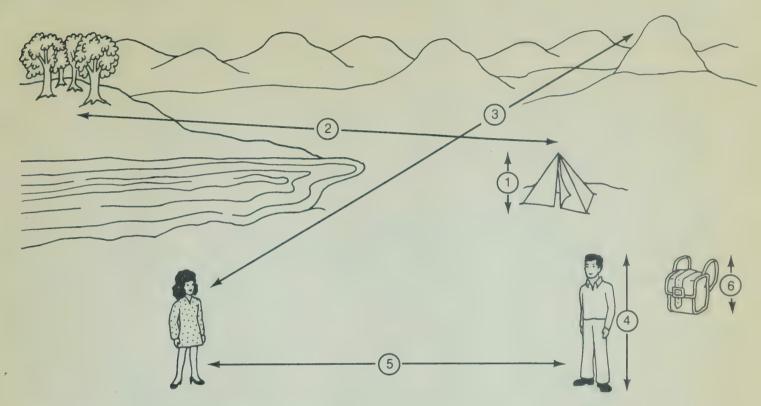
How many flights? \_\_\_\_\_

**b** 28 passengers. 4 seats in each row.

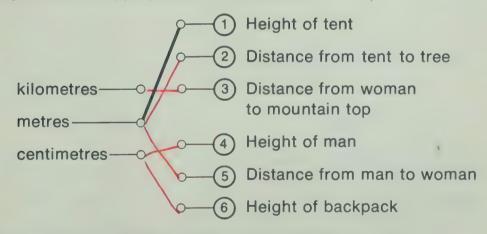
c 12 crew members. 4 flights.

How many crew members on each flight?





Match each length with the appropriate unit, as shown.



Write the correct numeral and symbol for each measurement.

- 7 five centimetres 5 cm
- 9 one kilometre \_\_\_\_\_ km
- 11) sixteen millimetres 16 mm
- (13) ten metres \_\_\_\_\_\_\_ ID m
- (10) twenty metres 20 m
- (12) seven millimetres \_\_\_\_\_\_\_ 7 mm
- (14) one hundred thirty-eight metres

\_138\_m\_\_\_

1. The distance from Calgary to Edmonton is 299 km. The distance from Edmonton to Regina is 785 km. How far is it from Calgary to Regina by way of Edmonton?

2. The distance from Gaspe to Moncton is 669 km. The distance from Gaspe to Fredericton is 700 km. How much farther is it from Gaspe to Fredericton than it is to Moncton?

3. The Smith family took a four-day trip. On Monday they drove 278 km, on Tuesday 346 km, on Wednesday 362 km, and on Thursday 169 km, How many kilometres did they drive on the trip?

Find the sum or difference.

15 m 29 cm

87 m 45 cm -49 m 36 cm 9 cm

6. A rope is 7 m 5 cm long. A piece 5 m 4 cm long is cut from it.

How much rope is left? 2 m 1 cm

7. Complete the tables.

km	m
-	1000
6	6000
9	9000
3	3000

b			
m	cm		
2	200		
8	800		
50	5000		
3	300		

С			
cm	m		
400	4		
600	6		
900	9		
700	7		

Tell how many metres and how many centimetres in each question.

Write each of these with a decimal point and the symbol m.

b
7 m 41 cm 7.41 m
12 m 52 cm 12.52 m
2 m 3 cm 2.03 m
8 m 19 cm 8.19 m

13 m 2 cm 13.02 m

Write the answer to each problem.

1 Carol is 93 cm tall.

Amy is 65 cm tall.

What is the difference

in their heights? 28 cm

2 Tom's vegetable garden is12 m long. Jim's is 16 m long.What is the total length

of both gardens? 28 m

③ Bill is 53 cm tall. Joe is 39 cm tall. What is the total of

both their heights? 92 cm

4 Jane ran 100 m in a relay. Carol ran 400 m in a relay. How much farther did

Carol run? 300 m

Complete the tables.

	C	4
1.	weeks	days
	1	7
	3	21
	5	35
	8	56

r		
ı	a	
L	2	

b			
months	weeks		
1	4		
2	8		
4	16		
9	36		

C			
years	months		
1	12		
, 3	36		
5	60		
8	96		

Rename.

2. 3 h 26 min is 2 h \_\_\_\_min .

b

5 h 15 min is 4 h \_\_\_\_\_\_\_\_min .

2 min 35 s is 1 min 95 s.

Add or subtract.

4 years 5 months +2 years 3 months 6 years 8 months

3 weeks + 2 weeks 4 days 5 weeks 4 days b

7 h 42 min —1 h 16 min 6 h 26 min 5 6 h 60 min —1 h 12 min

days 16 h -2 days 18 h 2 days 22 h

9 weeks 5 days +2 weeks 6 days

Il weeks Ildays or 12 weeks 4 days

6. Andrew plays the piano. He kept a record of his practice time in minutes. How much did he practise each week?

	First week	Second week	Third week	Fourth week
Monday	25	12	0	20
Tuesday	3 0	20	18	0
Wednesday	15	15	2 5	0
Thursday	0	23	25	3.8
Friday	20	3 0	25	4 0
	90	100	93	98

7. How much longer did Andrew practise the second week than the first?

10 min

8. How much longer did he practise the fourth week than the third?

- 1. Each person drove at a speed of 50 km/h.
  - a Tom drove 100 km. How many hours did he drive? 2

  - c Linda drove 500 km . How many hours did she drive?
  - d Jane drove 50 km. How many hours did she drive?
  - e The Greens drove 200 km . How many hours did they drive? 4 h
- 2. Write in order from longest to shortest unit of time.

day, second, year, minute, month, hour

year, month, day, hour, minute, second

Compute.

а

b

C

5. You are travelling along a highway at a speed of 100 km/h.

How far would you go in 3 h?

300 km

6. Driving down a city street you are travelling at a speed of 50 km/h. How far would you travel in 2 h?

100 km

7. If you are travelling at a speed of 80 km/h, how far would

you go in 1 h ? ©1976, SRA 80 km

#### 1. Complete the chart.

×	10	20	30	40	50	60	70	80	90
1	10	20	30	40	50	60	70	80	90
2	20	40	60	80	100	120	140	160	180
3	30	60	90	120	150	180	210	240	270
4	40	80	120	160	200	240	280	320	360
5	50	100	150	200	250	300	350	400	450
6	60.	120	180	240	300	360	420	480	540
7	70	140	210	280	350	420	490	560	630
8	80	160	240	320	400	480	560	640	720
9	90	180	270	360	450	540	630	720	810

Round the 2-digit number to the nearest ten.

Estimate the answer. Use > or < to complete the statement that follows.

2

2. 
$$3 \times 41$$
 is about  $3 \times 40$ .

$$3 \times 40 = 12.0$$

3. 
$$6 \times 19$$
 is about  $6 \times 20$ .

$$6 \times 20 = 120$$

#### 4. $2 \times 53$ is about $2 \times 50$ .

$$2 \times 50 = 100$$

h

 $5 \times 28$  is about  $5 \times 30$ .

 $4 \times 64$  is about  $4 \times 60$ .

$$4 \times 60 = 240$$

$$8 \times 67$$
 is about  $8 \times 70$ .

е

75

× 8

Estimate the product. Write it in the parentheses. Then find the exact answer.

a b C d 1. 27 4 1 53 28 × 3 × 6 8 246 (240)(240)(200)

2. 52 17 65 44  $\times 5$   $\times 9$   $\times 2$   $\times 7$  $\overline{260}$  (180) (140) (280)

Multiply.

 a
 b
 c
 d

 4. 47
 52
 61
 98

 × 4
 × 7
 × 5
 × 2

 188
 305
 196

5. 29 85 32 43 64  $\times$  6  $\times$  3  $\times$  9  $\times$  5  $\times$  6  $\times$  6  $\times$  7  $\times$  6  $\times$  6  $\times$  7  $\times$  7  $\times$  8  $\times$  6  $\times$  7  $\times$  8  $\times$  9  $\times$  5  $\times$  6  $\times$  6  $\times$  8  $\times$  7  $\times$  8  $\times$  9  $\times$  5  $\times$  6  $\times$  8  $\times$  9  $\times$  9  $\times$  5  $\times$  6  $\times$  8  $\times$  9  $\times$  9  $\times$  10  $\times$  10

 6. 68 18 74 69 78 

  $\times$  9
  $\times$  4
  $\times$  2
  $\times$  8
  $\times$  7

  $\overline{6}$   $\overline{7}$   $\overline{7}$   $\overline{5}$   $\overline{5}$ 

Multiply.

Round the 3-digit number to the nearest hundred.

Estimate the answer. Use > or < to complete the statement that follows.

**1.**  $5 \times 289$  is about  $5 \times 300$ .

 $5 \times 300 = 1500$ 

5 × 289 (<) 1500

**2.**  $7 \times 465$  is about  $7 \times 500$ .

 $7 \times 500 = 3500$ 

7 × 465 (<) 3500

**3.**  $8 \times 224$  is about  $8 \times 200$ .

8 × 200 = 1600

8 × 224 (>) 1600

 $4 \times 604$  is about  $4 \times 600$ .

 $4 \times 600 = 2400$ 

4 × 604 (>) 2400

 $6 \times 184$  is about  $6 \times 200$ .

 $6 \times 200 = 1200$ 

 $6 \times 184 (4) 1200$ 

 $3 \times 740$  is about  $3 \times 700$ .

 $3 \times 700 = 2100$ 

 $3 \times 740 () 2100$ 

Complete each multiplication.

247

 $21 \quad (3 \times 7)$ 

 $120 (3 \times 40)$ 

600 (3 × 200)

b

358

× 7

56 (7 × 8)

 $350 (7 \times 50)$ 

2100 (7 × 300)

2506

247

× 5

35  $(5 \times 7)$ 

200  $(5 \times 40)$ 

00 ○ (5 × 200)

1235

Multiply.

4.

a

5. 628

3 1 4

b

569

2 138

473

8

C

118 472

241

723

d

426

6 2556

163

#### Complete.

a

$$30 \times 12 = 360$$

2. 
$$6 \times 27 = 162$$

$$60 \times 27 = 1620$$

b

$$4\times 57=\underline{228}$$

C

$$8 \times 32 = 256$$

$$80 \times 32 = 2560$$

$$7 \times 45 = 315$$

$$70 \times 45 = 3150$$

### Multiply.

а

3. 
$$34$$
  $34$   $\times$  5  $\times$  50  $\times$  170

b

С

$$\begin{array}{ccc}
62 & 62 \\
\times & 5 & \times & 50 \\
\hline
310 & 3100
\end{array}$$

#### Write the products.

a

b

С

d

е

Multiply.

Jerry's dad had a sale table in his hardware store. Jerry decided to find the sale value of the items on the table.

(13) 35 small wrenches. Each wrench was 43¢.

How much for wrenches?

86 metal clamps. Each clamp was 43¢.

How much for clamps?

(15) 61 screwdrivers. Each screwdriver was 30¢. How much for screwdrivers? \$18.30

- (16) 25 garden trowels. Each trowel was 68¢. How much for trowels?
- (17) 23 paintbrushes. Each paintbrush was 79¢. How much for paintbrushes? \$ 18.17
- (18) 18 pairs of pliers. Each pair of pliers was 39¢. How much for the pliers?
- Jerry added 47 screen hooks at 10¢ each. How much for screen hooks?

\* How much was everything on the table worth? \$117.22

Multiply.

а

1. 35 × 57 **995**  b

С

d

е

2. 81 × 36 2916

3. 89 × 47 <del>4183</del>

Find each partial product and the final product.

a

4.

b

7 8 6 × 4 5 3 9 3 0 (5 × 786) 31 4 4 0 (40 × 786) 35 3 7 0

Multiply.

a

5. 394 × 16 6304 b

568 × 37 21 016 C

192 × 58 d

#### Find the products.

a

16 1.

b

C

82

d

12 × 7 е

**2.** 73

× 8
584

51

× 5 2.55 86

× 9

70

× 3

96

× 7

3. 249

1743

872

× 3

532

× 5 2660 516

× 2 1032 697

× 6

4. 651

× 6 3906 347

× 3 7041

415

× 8 3320 309

× 9 2781 646

× 4

**5.** 55

× 28 1540 18

× 59 1062 67

× 71 4757 75

× 48 3600

44 × 26

1144

**6.** 85 × 25 2125

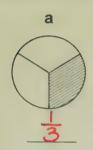
68 × 46

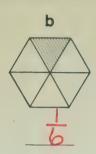
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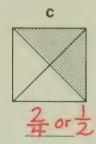
75

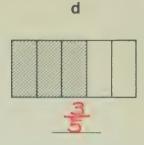
× 27 2025

1. Write the fraction that names the shaded part.

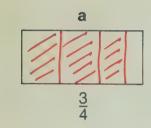


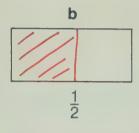


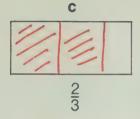


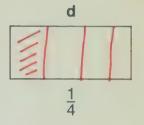


2. Draw lines and shade parts in each region to show the fraction.

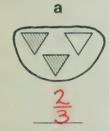


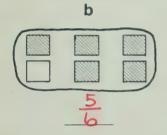


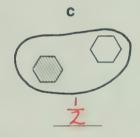


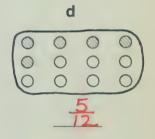


3. What fractional part of each set is shaded?

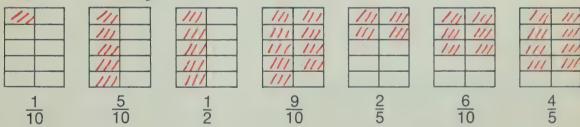








4. Shade parts in each region to show the fraction.



5. Underline the fraction that names the larger part of a region.

a

$$\frac{2}{4}$$
 or  $\frac{3}{4}$ 

b

$$\frac{2}{5}$$
 or  $\frac{4}{5}$ 

C

$$\frac{7}{10}$$
 or  $\frac{3}{10}$ 

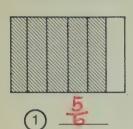
d

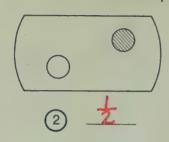
$$\frac{4}{10}$$
 or  $\frac{1}{10}$ 

**6.** Use > or < to complete each statement.

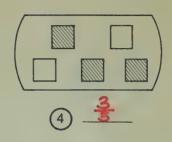
$$\begin{array}{c} \mathbf{a} \\ \frac{2}{5} & \frac{3}{5} \end{array}$$

Write the fraction that names the shaded part.

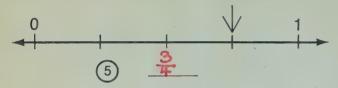


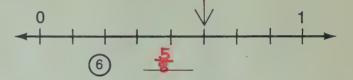






Write the fraction that belongs at the point of the arrow.





Complete the pattern for each set of fractions. Write the missing numerators.

 $\frac{1}{5}$ ,  $\frac{2}{5}$ ,  $\frac{3}{5}$ ,  $\frac{4}{5}$ ,

 $\frac{4}{10}$ ,  $\frac{5}{10}$ ,  $\frac{6}{10}$ ,  $\frac{7}{10}$ ,  $\frac{8}{10}$ ,  $\frac{9}{10}$ ,

Write each set of fractions in order from largest to smallest.

 $\frac{1}{10}$ ,  $\frac{10}{10}$ ,  $\frac{7}{10}$ 

11) Underline the fractions that are greater than  $\frac{4}{6}$ .

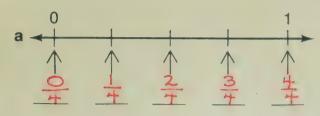
 $\left(\frac{2}{6}\right)\left(\frac{3}{6}\right) \frac{4}{6}, \frac{5}{6}, \frac{6}{6}$ 

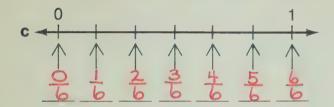
12 Ring the fractions in problem 11 that are less than  $\frac{4}{6}$ .

Underline the fractions between  $\frac{3}{12}$  and  $\frac{9}{12}$ .

 $\frac{9}{12}$ ,  $\frac{3}{12}$ ,  $\frac{5}{12}$ ,  $\frac{11}{12}$ ,  $\frac{1}{12}$ ,  $\frac{4}{12}$ ,  $\frac{2}{12}$ ,  $\frac{7}{12}$ ,  $\frac{8}{12}$ ,

1. Write the fraction that names the point at each arrow.

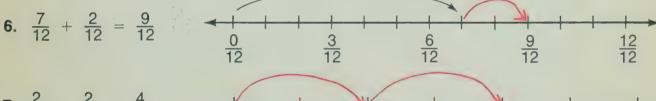




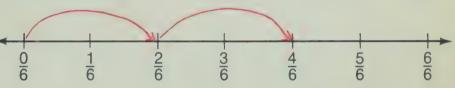
Underline the greater fraction.

- 2.  $\frac{3}{4}$  or  $\frac{2}{4}$
- 3.  $\frac{3}{4}$  or  $\frac{3}{5}$
- 4.  $\frac{2}{5}$  or  $\frac{5}{6}$
- 5.  $\frac{2}{4}$  or  $\frac{4}{6}$

Draw arrows to show the addition on the number line.



7.  $\frac{2}{6} + \frac{2}{6} = \frac{4}{6}$ 



Complete each addition.

8. 
$$\frac{2}{4} + \frac{1}{4} = \frac{2+1}{4} = \frac{3}{4}$$

$$\frac{3}{8} + \frac{2}{8} = \frac{3+2}{8} = \frac{5}{8}$$

9. 
$$\frac{3}{6} + \frac{1}{6} = \frac{3+1}{6} = \frac{4}{6}$$

$$\frac{5}{9} + \frac{3}{9} = \frac{5+3}{9} = \frac{8}{9}$$

Add.

10. 
$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$$

$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$
 $\frac{5}{8} + \frac{1}{8} = \frac{3}{8}$ 

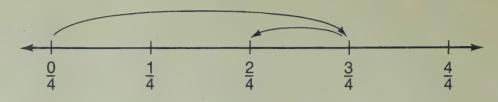
11. 
$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$

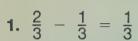
$$\frac{2}{9} + \frac{3}{9} = \frac{5}{9}$$

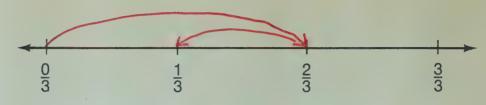
Draw arrows to show the subtraction on the number line.

### Example

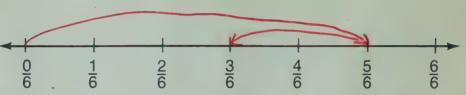
$$\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$$







2. 
$$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$$



Complete each subtraction.

3. 
$$\frac{3}{4} - \frac{2}{4} = \frac{3-2}{4} = \frac{1}{4}$$

$$\frac{5}{9} - \frac{3}{9} = \frac{5-3}{9} = \frac{2}{9}$$

$$\frac{11}{12} - \frac{7}{12} = \frac{11-7}{12} = \frac{4}{12}$$

4. 
$$\frac{4}{7} - \frac{3}{7} = \frac{4-3}{7} = \frac{1}{7}$$

5. 
$$\frac{4}{9} - \frac{1}{9} = \frac{3}{9}$$

6. 
$$\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$$

$$\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$$

$$\frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

$$\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$$

$$\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

Add.

$$2\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$$

$$3 \frac{4}{12} + \frac{5}{12} = \frac{9}{12}$$

Subtract.

$$4 \frac{4}{9} - \frac{1}{9} = \frac{3}{9}$$

$$\boxed{5} \ \frac{10}{10} - \frac{7}{10} = \boxed{\frac{3}{10}}$$

$$6) \frac{3}{4} - \frac{2}{4} = 4$$

Use >, <, or = to complete each statement.

a

1. 
$$\frac{3}{4} + \frac{2}{4} \bigcirc \frac{4}{4}$$

2. 
$$\frac{4}{5} + \frac{1}{5} = \frac{5}{5}$$

3. 
$$\frac{2}{6} + \frac{3}{6} \checkmark \frac{6}{6}$$

b

$$\frac{5}{8} + \frac{1}{8} \bigcirc \frac{8}{8}$$

$$\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$$

$$\frac{9}{10} + \frac{3}{10} > \frac{10}{10}$$

C

$$\frac{5}{8} + \frac{6}{8} \nearrow \frac{8}{8}$$

$$\frac{9}{12} + \frac{5}{12} > \frac{12}{12}$$

$$\frac{3}{9} + \frac{8}{9} > \frac{9}{9}$$

Add. Draw a ring around each answer that is greater than 1.

4. 
$$\frac{3}{5} + \frac{3}{5} = \frac{6}{5}$$

5. 
$$\frac{3}{4} + \frac{3}{4} = \frac{6}{4}$$

6. 
$$\frac{2}{5} + \frac{4}{5} = \frac{6}{5}$$

$$\frac{7}{8} + \frac{4}{8} = \boxed{\frac{11}{8}}$$

$$\frac{7}{12} + \frac{3}{12} = \frac{10}{12}$$

$$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$

 $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ 

$$\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$$

$$\frac{7}{12} + \frac{8}{12} = \frac{15}{12}$$

Rename each fraction as a mixed number.

7. 
$$\frac{4}{3} = 1\frac{1}{3}$$

8. 
$$\frac{7}{3} = 2\frac{1}{3}$$

9. 
$$\frac{11}{9} = 1\frac{2}{9}$$

$$\frac{9}{4} = \frac{2}{4}$$

$$\frac{10}{9} = 1\frac{1}{9}$$

$$\frac{17}{12} = 1\frac{5}{12}$$

$$\frac{7}{5} = \frac{2}{15}$$

$$\frac{5}{2} = 2\frac{1}{2}$$

$$\frac{13}{6} = 2\frac{1}{6}$$

$$\frac{13}{9} = 1\frac{4}{9}$$

$$\frac{6}{5} = \boxed{\frac{1}{5}}$$

$$\frac{10}{3} = 3\frac{1}{3}$$

Add. Rename each sum as a mixed number.

a b c 10. 
$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4} = \frac{1}{4} = \frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5} = \frac{6}{8} + \frac{5}{8} = \frac{3}{8} = \frac{3}{8}$$

11. 
$$\frac{3}{4} + \frac{3}{4} = \frac{\cancel{4}}{\cancel{4}} = \cancel{\frac{12}{4}} = \frac{5}{8} + \frac{5}{8} = \cancel{\frac{10}{8}} = \cancel{\frac{7}{9}} + \frac{4}{9} = \cancel{\frac{14}{9}} = \cancel{\frac{12}{9}}$$

12. 
$$\frac{5}{6} + \frac{5}{6} = \frac{10}{6} = \frac{3}{7} + \frac{5}{7} = \frac{8}{7} = \frac{1}{10} + \frac{9}{10} = \frac{1}{10} = \frac{1}{10}$$

$$\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$$

$$\frac{5}{8} + \frac{5}{8} = \frac{10}{8} = \frac{2}{18}$$

$$\frac{7}{9} + \frac{4}{9}$$

$$=\frac{11}{9}=\frac{12}{9}$$

$$\frac{3}{7} + \frac{5}{7} = \frac{8}{7}$$

$$\frac{7}{0} + \frac{9}{10} =$$

Underline the greater fraction in each pair.

$$\frac{3}{5}$$
 or  $\frac{4}{5}$ 

$$\frac{6}{8}$$
 or  $\frac{5}{8}$ 

$$\frac{3}{6}$$
 or  $\frac{5}{6}$ 

2. 
$$\frac{7}{12}$$
 or  $\frac{6}{12}$ 

$$\frac{2}{4}$$
 or  $\frac{1}{4}$ 

$$\frac{9}{10}$$
 or  $\frac{8}{10}$ 

$$\frac{7}{9}$$
 or  $\frac{9}{9}$ 

3. Write the fractions in order from smallest to largest.

$$\frac{3}{6}$$
,  $\frac{5}{6}$ ,  $\frac{1}{6}$ ,  $\frac{0}{6}$ ,  $\frac{6}{6}$ ,  $\frac{4}{6}$ ,  $\frac{2}{6}$ ,  $\frac{1}{6}$ ,  $\frac{2}{6}$ ,  $\frac{3}{6}$ ,  $\frac{1}{6}$ ,  $\frac{5}{6}$ ,  $\frac{5}{6}$ ,  $\frac{1}{6}$ ,  $\frac{5}{6}$ ,

Add.

4. 
$$\frac{4}{6} + \frac{1}{6} = \frac{5}{8}$$
  $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$   $\frac{5}{9} + \frac{1}{9} = \frac{6}{9}$   $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$ 

$$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

$$\frac{5}{9} + \frac{1}{9} = \frac{6}{9}$$

$$\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$$

5. 
$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$
  $\frac{7}{12} + \frac{2}{12} = \frac{9}{12}$   $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$   $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$ 

$$\frac{7}{12} + \frac{2}{12} = \frac{9}{12}$$

$$\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$$

$$\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$$

Subtract.

6. 
$$\frac{3}{6} - \frac{1}{6} = \frac{2}{6}$$
  $\frac{5}{8} - \frac{4}{8} = \frac{1}{8}$   $\frac{7}{9} - \frac{4}{9} = \frac{3}{9}$   $\frac{3}{3} - \frac{2}{3} = \frac{1}{3}$ 

$$\frac{1}{8} - \frac{4}{8} = \frac{1}{8}$$

$$\frac{7}{9} - \frac{4}{9} = \frac{3}{9}$$

$$\frac{3}{3} - \frac{2}{3} = \frac{1}{3}$$

7. 
$$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$
  $\frac{4}{5} - \frac{4}{5} = \frac{2}{5}$   $\frac{3}{12} - \frac{2}{12} = \frac{1}{12}$   $\frac{10}{10} - \frac{8}{10} = \frac{2}{10}$ 

$$\frac{4}{5} - \frac{4}{5} = \frac{9}{5}$$

$$\frac{3}{12} - \frac{2}{12} = \frac{1}{12}$$

$$\frac{10}{10} - \frac{8}{10} = \frac{2}{10}$$

Underline the greater fraction in each pair.

$$\frac{1}{2}$$

or 
$$\frac{1}{10}$$

9. 
$$\frac{1}{10}$$
 or  $\frac{1}{5}$ 

$$\frac{1}{12}$$
 or  $\frac{1}{4}$ 

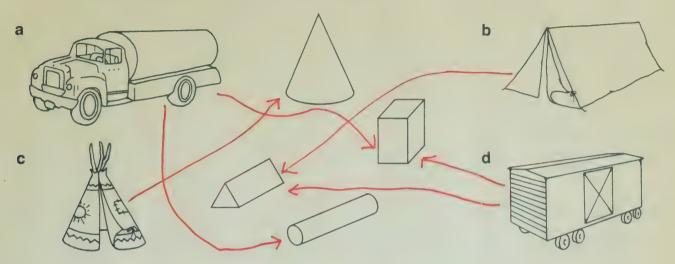
$$\frac{1}{4}$$
 or  $\frac{1}{8}$ 

8. 
$$\frac{1}{3}$$
 or  $\frac{1}{9}$   $\frac{1}{2}$  or  $\frac{1}{6}$   $\frac{1}{4}$  or  $\frac{1}{8}$   $\frac{1}{6}$  or  $\frac{1}{12}$ 

$$\frac{1}{6}$$
 or  $\frac{1}{4}$ 

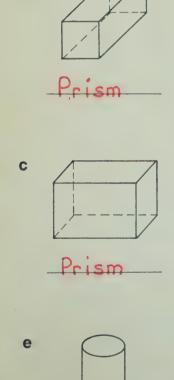
$$\frac{1}{6}$$
 or  $\frac{1}{9}$ 

1. Match the pictures and the figures. Some objects may match more than one figure.



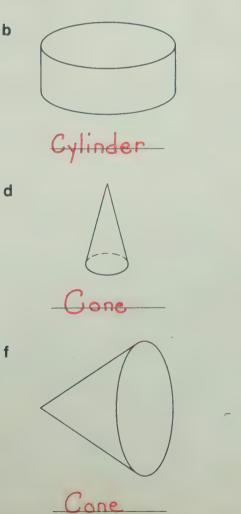
b

2. The figures below are prisms, cylinders, and cones. Identify each by writing its correct name.



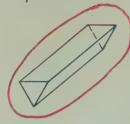
Cylinder

a



Mark the triangular prisms.





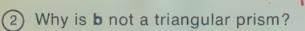




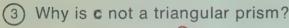


(1) Why is a a triangular prism?

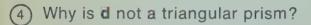
Staces, ends are congruent triangles.



Triangular ends are not congruent.



It only has 4 faces



The ends are semicircles; has a curved surface.

5 Name three features all triangular prisms have.

a It has 5 faces

b The ends are congruent triangles.

· All parts of the triangular ends are the same distance apart.

(6) Why do you think most rooms are not shaped like a triangular prism?

It would be difficult to make furniture fit and difficult to build.
The walls would be closed

the walls would be slanted

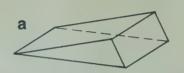
What would be some advantages and disadvantages of a room shaped like a cone?

Advantages

Interesting
High-pointed ceiling-great
For a chandelier

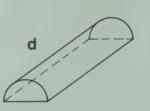
Disadvantages

Less room—no corners
Hard to hang pictures as walls
Wastes space in a building









Use these names to identify the figures or	1 this	page.
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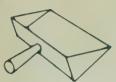
rectangular prism triangular prism

cylinder pyramid

sphere cone

1. Write the name of the geometric solid that best describes the shape of each object.

a



b

d

2. Write the name of the solid that could be constructed with each set of surfaces.



b





C







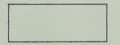


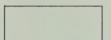


Rectangular prism

d







Triangular prism

3. a How many edges does a triangular prism have?

How many vertices?

b How many edges does a cylinder have?

How many faces? How many vertices?

c How many edges does a rectangular prism have? 12

Round each number.

Add to get an estimate and add to get the exact answer.

а

b

C

Find the exact sums.

а

f

Add.

Round each number to the nearest thousand. Find the estimated sum and the exact sum.

b C 4000 1. 3670 5000 5021 9644 10000 + 9000 + 6000 + 9197 + 6253 + 5007 13 000 11000 14 651 7000 7189 2. 9630 10000 6775 + 5846 + 6000 + 6222 + 6000 + 1978 13 0 35 15 852 16000 8753

Write the estimated sum above each problem. Then compute the exact sum.

	а	b	С	d	е
3.	15 000	8000	11000	10000	6000
	5762	3074	8296	6876	3854
	+ 9166	+ 5236	+ 2972	+ 2878	+ 1822
	14 928	8310	11 268	9754	5676
4.	10 000	9000	6000	5000	5000
	2785	3318	1968	2791	8651
	+ 7221	+ 5674	+ 3531	+ 2023	+ 6494
	10 006	8992	5499	4814	15 145
5.	11 000	18 000	8000	5000	14 000
	8450	8682	6778	3121	8751
	+ 3022	+ 9012	+ 1034	+ 1847	+ 5043
	11 472	17 694	7812	4968	13 794
6.	11 000	4000	13 000	14 000	5000
	6354	1049	6572	9583	2317
	+ 5371	+ 3344	+ 6267	+ 4227	+ 3426
	11 725	4393	12 839	13810	5743

Round each number to the nearest hundred. Find the estimated sum and the exact sum.

		a		b		C
1.	3 4 3	_300	660	700	752	800
	709	. 700	670	_700	115	_100
	+ 852	+ 900	+ 511	+ _500	+ 471	+ 500
	1904	1900	1841	1900	_1338	1400
2.	192	200	2396	2400	590	600
	676	700	668		791	800
	492	500	4243	4200	171	_200
	+ 318	+ 300	+ 117	+	+ 404	+ 400
	1678	1700	7424	7400	1956	2000

Write the estimated sum above each problem. Then compute the exact sum.

	a	b	С	d	е
3.	1600	1900	2100	2500	2800
	305	350	883	577	840
	431	833	471	4 1 5	460
	+ 868	+ 732	263	752	881
	1604	1915	+ 435	+ 701	+ 627
			2052	2445	2808
4.	24 000	10 000	21 000	15 000	23 000
	8514	2796	7301	9105	9315
	9213	1572	8596	3 1 2 4	8326
	+ 6420	+ 5390	+ 4681	+ 2573	+ 6030
	24147	9758	20 578	14 802	23 671

Round each number to the nearest hundred. Estimate the sum.

Round each number.

Subtract to get an estimate and subtract to get the exact answer.

a

b

С

Find the exact difference.

а

Subtract.

a

d

e

Round each number.

Subtract to get an estimate and subtract to get the exact answer.

		a		b		С	
11.	5687	5700	8712	9000	9259	9300	
	_ 574	_ 600	<u> </u>	8000	<u> </u>	700	
	5113	5100	843	1000	8536	8600	<u>.                                    </u>
2.	7048	0000	9250	9000	7560	7600	
	_ 78	_ 100	_ 7396	7000	_ 69	_ 100	
	6970	6900	1854	2000	7491	7500	

1080

		ed difference abore e exact difference	· ·		
3.	3000 3724 - 1261 2463	7766 - 960 - 6806	8000 8064 - 65 1999	9452 - 274 - 9178	4075 - 79 - 3996
4.	5447 - 82 - 5365	7198 - 528 - 6670	9100 9102 - 22 <del>9080</del>	7120 - 211 - 6909	7247 - 3921 - 3326
5.	5500 6439 - 938 5501	8382 - 667 7115	9238 - 488 8150	7358 - 895 - 6463	9429 - 856 8513
6.	3832	4781 - 3701	2397 - 988	9000 9077 - 80	2601 - 2016

14-09

8997

585

Complete.

а

1. 65 × 2

$$\frac{120}{130}$$
 (2 × 60)

b

7 1 × 3

С

$$24 (6 \times 4)$$

2.

56 × 9

<u>54</u> (9×6)

<u>450</u> (9 × 50)

504

5 5 × 5

\_\_\_\_\_25 (5 × 5)

**250** (5 × 50)

2.75

88

\_\_\_\_64 (8 × 8)

\_640 (8 × 80)

704

Multiply.

а

3. 46 × 7 b

63 × 4 С

92 × 6 d

 $\begin{array}{r} 77 \\ \times 3 \\ \hline 231 \end{array}$ 

4. 742

× 9
6678

252

182

 $\frac{\times 5}{910}$ 

687

 $\frac{\times 4}{2.748}$ 

**5.** 548

× 2 1096 646

× 4
2584

338

× 2

439

× 8

**6.** 558

× 7
3906

489

× 6
2934

251

 $\frac{\times 3}{753}$ 

673

× 5

Complete.

Multiply. Use the shortcut if you wish.

а	b	С	d	е
3. 59	8 4	26	8 4	23
× 30	× 7 0	× 80	× 2 0	× 40
1770	<b>5880</b>	<del>2080</del>	1680	<del>920</del>
4. 11	48	86	49	93
× 80	× 70	× 20	× 10	× 50
880	3360	1120	490	4650
5. 183	413	795	826	251
× 40	× 90	× 20	× 20	× 50
1320	37170	15 900	16 520	12 550
6. 368	499	547	919	649
× 60	× 40	× 10	× 40	× 80
22 080	19960	5470	36760	51 920
7. 783	471	985	739	838
× 80	× 60	× 90	× 60	× 50
62 640	28 260	88650	44 340	41 <b>9</b> 00

Round each number. Find the estimated product and the exact product.

a

1. 81 
$$80$$
 14  $10$  36  $40$   $\times 26 \times 30$   $\times 92 \times 90$   $\times 52 \times 50$   $\times 1872$   $\times 2000$ 

b

C

Multiply.

b

C

d

е

$$74 \times 78 \overline{5712}$$

Complete.

1. 118 823 270 
$$\times$$
 36  $\times$  38  $\times$  48  $\times$  48  $\times$  36  $\times$  38  $\times$  48  $\times$  48

Multiply.

а

2. 651 × 38 24 738 b

375 × 21 С

820 × 27 22 140 d

790 × 32 25 280

3. 282 × 94 26 503 594 × 45 26 730 465 × 23 /0 695 543 × 72 39 096

4. 352 × 64 22528 867 × 67 58 089 927 × 34 31 518 645 × 61 <del>39345</del>

5. 678 × 44 29 832 534 × 53 28 302 252 × 75 /8 900

186 × 13 24/8 Look for the easy way to multiply these numbers.

**a** 
$$2 \times 9 \times 5 = 90$$

**b** 
$$5 \times 7 \times 20 = 700$$

$$c \ 2 \times 8 \times 2 = 32$$

**d** 
$$2 \times 6 \times 50 = 600$$

**e** 
$$4 \times 7 \times 3 = 84$$

$$f 25 \times 3 \times 8 = 600$$

Add.

Subtract.

a

b

Multiply.

7. 
$$32 \times 91 \over 29/2$$

9.  $51 \times 45$  has the same product as  $45 \times 51$ . What

is that product? 22.95

10. Make the multiplication easy. Select the two numbers you multiply first.

### Complete.

a

1. 
$$2 \times 5 = 10$$

2. 
$$9 \times 4 = 36$$

3. 
$$3 \times 6 = 18$$

4. 
$$7 \times \underline{5} = 35$$

5. 
$$6 \times 4 = 24$$

6. 
$$9 \times 3 = 72$$

b

$$6 \times 8 = 48$$

$$6 \times 7 = 42$$

$$2 \times 7 = 14$$

$$5 \times 3 = 15$$

$$\times$$
 3 = 3

C

$$5 \times 7 = 35$$

$$9 \times 7 = 63$$

$$5 \times 6 = 30$$

$$2 \times 4 = 8$$

$$9 \times 3 = 27$$

$$\mathbf{2} \times 6 = 48$$

Find the largest number that will complete each sentence.

a

7. 
$$4 \times 3 < 14$$

8. 
$$\bigcirc \times 9 < 2$$

b

C

Answer each question.

a

11. How many 7s in 98? \_\_\_\_\_

**12.** How many 6s in 96? \_\_\_\_\_\_

13. How many 3s in 84? \_\_\_\_28\_\_

14. How many 8s in 88? \_\_\_\_\_

b

## How many 5s in 65? \_\_\_\_\_\_

How many 4s in 96? 24

How many 9s in 90?

Complete.

а

**15.** 
$$10 \times 5 = 50$$

17. 
$$500 \times 4 = 2000$$

18. 
$$60 \times 7 = 420$$

b

$$10 \times 9 = 90$$

$$90 \times 8 = 720$$

$$700 \text{ twos} = 1400$$

\_

$$200 \times 3 = 600$$

$$30 \text{ fours} = 120$$

$$800 \text{ fives} = 4000$$

70 fours = 
$$280$$

$$80 \times 5 = 400$$

Use subtraction to find the answers.

a

1. How many 7s in 238?

NAME

238 - 140 20 sevens - 70 10 sevens 28 b

How many 5s in 215?

215
- 100 20 fives
- 115
- 100 20 fives
- 15
- 15 3 fives

How many sevens? 34

How many fives? 43

2. How many 4s in 92?

92

-80

12

-12

3 fours

-60

30

How many 6s in 270?

270

-180

30sixes

90

-60

10sixes

5 sixes

3. How many 3s in 228?

228

150

50+hrees

78

-60

20+hrees

18

-18

6 threes

How many 8s in 248?

-160 20 eights

-80 10 eights

-8 leight

4. How many 9s in 615?

-270 30 nines

-270 30 nines

-270 30 nines

-270 8 nines

How many 2s in 146? 73

146
-100 50twos
-40 20twos
-6 3twos
0

#### Underline the number closest to the exact answer.

1. How many 4s in 131?	20	30	40
2. How many 8s in 171?	_20.₩	30	40
3. How many 5s in 124?	20_	30	40
4. How many 7s in 436?	40	50	<u>60</u>
<b>5.</b> How many 6s in 347?	40	50	<u>60</u>
6. How many 5s in 361?	50	60	70
<b>7.</b> How many 4s in 166?	30	_40_	50
8. How many 7s in 648?	70	80	90
9. How many 9s in 812?	70	80	90
<b>10.</b> How many 4s in 133?	_30	40	50

## Between what multiples of 10 is each answer?

2

- 11. How many 3s in 224?

  Between 70 and 80
- **12.** How many 5s in 283?

  Between 50 and 60
- 13. How many 6s in 212?

  Between 30 and 40
- 14. How many 9s in 734?

  Between 80 and 90
- **15.** How many 5s in 172?

  Between 30 and 40
- 16. How many 8s in 642?

  Between \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_

b

How many 7s in 326?

Between 40 and 50

How many 8s in 113?

Between 10 and 20

How many 4s in 171?

Between 40 and 50

How many 2s in 117?

Between 50 and 60

How many 9s in 713?

Between 70 and 80

How many 6s in 227?

Between 30 and 40

Divide.

a

b

C

1.

Estimate the quotient. Underline the nearest estimate.

300

Between what multiples of 10 or 100 is each answer?

1 About how many 6s in 394?

Between 60 and 70

2 About how many 4s in 221?

Between 50 and 60

3 About how many 8s in 319?

Between 30 and 40

About how many 9s in 731?

Between 30 and 90

5 About how many 2s in 513?
Between 200 and 300

6 About how many 8s in 995?
Between 100 and 200

About how many 4s in 797?

Between 100 and 200

8 About how many 2s in 755?
Between 300 and 400

About how many 5s in 744?
Between 100 and 200

10 About how many 3s in 514?

Between 100 and 200

Write your estimate in the parentheses. Then compute.

(100)

(200)

C

(100)

2.

(80.)

60)

100)

3.

(200)

(100

(.100)

Divide.

1. Estimate. Do not compute.

- in 200? <u>50</u>
- in 400? /00
- in 485? 120
- in 360? 60
- in 600? 100
- in 720? 120
- c How many 8s in 800? \_\_\_\_\_\_\_\_\_
- in 640? <u>80</u>
- in 400? <u>50</u>
- in 480? \_\_60
- in 300? 100
- in 360? 120
- in 450? <u>150</u>

2. Underline the better buy.

a 2 for 25¢ or 15¢ each

**b** 4 for 79¢ or 15¢ each

c 6 for 35¢ or 5¢ each

d 3 for 33¢ or 5 for 49¢

3. Divide.

a

b

C

d

1 Write ten sentences using one word, number, or symbol from each column.

500	>	6	about	fun
3	+	has	=	5
Math	×	4	lunch	day
n	is	when	good	numbers
60	sentences	2	>	11
Today	each	8	sometimes	1000
Word	÷	tell	be	comes
18	may	is	×	12
Each	work	may	<	3
We	day	9	· ·	9
Sentences	=	3	#	false
7		а	some	good

<b>a</b> .	500>6x12	
h	3+2.=5	

· Math sentences tell about numbers.

d n=2<12

e 6078X5

1 Today is a good day.

g Word sentences may be false.

h 18-6<11

i We may tell about numbers.

7-3=1000

- 2 Do your sentences all give a complete idea?
- 3 Are your sentences all true?
- 4 Does each math sentence have a relation symbol?

Yes
Answers will vary.

1. Here are some numbers: 4, 6, 8, 10, 12, 14, 16, 18.

Write the numbers from this set that can be used to make each sentence true.

a 7 < □

14 16

**b** □ > 4

10 12 14

c  $12 - 4 = \square$ 

d 3 + 9 ≠ □

8 10 14

16 18

e □ > 5

6 8 10 12 14 16 18

After each sentence write T if it is true, F if false, or O if open.

C

**2.** 
$$3 + 4 = 7$$

7 > 2 + 3 <u>T</u>

 $21 \div 3 = 7$ 

3. 
$$4 \times n = 12$$

0

 $n \div 9 = 9$ 

$$2 + 7 = 8$$
 **F**

**4.** 
$$16 \times 43 = 43 \times 16$$
 \_\_\_\_\_

$$21 > 4 \times 5$$
  $\boxed{\mathsf{T}}$ 

$$12 > k$$
 O

Use >, <, or = to make each sentence true.

b

$$85 > 9 \times 9 \qquad 27 \div 3 < 10$$

6. 
$$17 - 5 \bigcirc 2 \times 7$$

Use T, F, or O to tell whether each sentence is true, false, or open.

$$1 4 9 = 32$$

(2)  $24 \div 3 = 4 \times 2$  **T** 

$$3 16 \times n = 32$$

(4) 
$$27 > 5 \times 5$$

$$\boxed{5}$$
 37 - 12 = 5 × 5  $\boxed{1}$ 

$$6) 64 = 9 \times 8$$

<u>F</u>

Rewrite each open sentence as a true sentence.

$$(7)$$
 18 +  $b = 25$ 

(8) 
$$36 - n = 20$$
  $36 - 16 = 20$ 

(9) 
$$8 + n = 17$$

$$10 \ 4 + 3 + a = 9 \ \ 4 + 3 + 2 = 9$$

(11) 
$$5 \times c = 500$$

$$(12)$$
 24 ÷  $s = 8$ 

(12) 
$$24 \div s = 8$$
  $24 \div 3 = 8$ 

You have studied several types of sentences.

Write three of each type. Answers will vary

1 An equality contains the relation symbol = .

Write three equalities.

$$a = 2 \times 10 = 4 \times 5$$

c 100×100= 10×10×10×10

2 An inequality contains any one of the relation symbols >, <, or  $\neq$ .

Write three inequalities.

c 9x3428

(3) A true sentence is mathematically correct.

Write three true sentences.

c 200÷10 ≠ 21

4 A false sentence is mathematically incorrect.

Write three false sentences.

c 5×4720

(5) An open sentence contains a placeholder.

It is neither true nor false.

Write three open sentences.

After each sentence write T if it is true, F if false, or O if open.

**1. a** 
$$100 \div 10 = 10$$

**b** 
$$\frac{1}{6} < \frac{1}{4}$$

$$c \frac{2}{5} \times \frac{1}{5} = \frac{3}{10}$$

d 
$$125 \div 5 = n$$
  
 $125 \div 5 = 25$ 

e 
$$18 > 8 \times 2$$

f 
$$1468 \times 7 = n$$
  
1468 × 7 = 10 276

$$g + n = 11$$

$$h \frac{7}{12} - \frac{2}{12} = \frac{5}{12}$$

$$54 \div 9 = 3 \times n$$
  
 $54 \div 9 = 3 \times 2$ 

$$\frac{3-n>1}{3-1>1}$$
 or  $\frac{3-n>1}{3-1>1}$ 

2. Under each open sentence in problem 1 write the sentence as a true sentence.

Find the answer to each problem.

For each problem write a true math sentence to back up your answer.

3. a He took the bus 6 times. Each trip was 15¢. How much in all? 90 & **b** His allowance was \$2.50. He spent 90¢ on a taxi. How much was left? \$1.60

# 6×15¢=90¢

4. a Mary rode the bus 9 times each week. Each trip was 15¢. How much bus fare each week? \$1.35 **b** How much did she spend for the bus in 4 weeks? \$5.40

# 9x \$0.15 = \$1.35

5. a Mary's allowance was \$2.75 each week. What was her allowance in 4 weeks? \$ 11.00

**b** Mary had \$5.60 left after bus fare for 4 weeks. How much was left for each week?

\$2.75 x 4 = \$11.00

\$5.60 ÷ 4= \$1.40

1. Shade each region to show the fraction.













Number of parts shaded Total number of parts-

Show another name for each fraction.

2.  $\frac{1}{2} = \frac{2}{4}$ 

 $\frac{1}{2} = \frac{5}{10}$ 

$$\frac{2}{4} = \frac{4}{8}$$

3. 
$$\frac{1}{2} = \frac{3}{6}$$
  $\frac{2}{4} = \frac{12}{12}$ 

$$\frac{2}{4} = \frac{1}{12}$$

$$\frac{1}{2} = \frac{1}{12}$$

$$\frac{1}{2} = \frac{8}{16}$$

Underline the greater fraction.

4.  $\frac{1}{2}$  or  $\frac{1}{3}$ 

 $\frac{1}{12}$  or  $\frac{1}{2}$ 

 $\frac{1}{4}$  or  $\frac{1}{3}$ 

5. 
$$\frac{3}{6}$$
 or  $\frac{1}{6}$ 

$$\frac{1}{4}$$
 or  $\frac{3}{4}$ 

 $\frac{3}{9}$  or  $\frac{2}{9}$ 

 $\frac{3}{8}$  or  $\frac{5}{8}$ 

Complete to make each sentence true. The number lines may help.

6. 
$$\frac{1}{2} = \frac{4}{8}$$

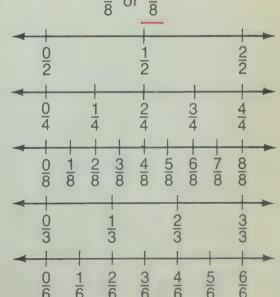
 $\frac{1}{3} = \frac{2}{6}$ 

7. 
$$\frac{3}{4} = \frac{1}{8}$$

$$\frac{2}{3} = \frac{4}{6}$$

8. 
$$\frac{2}{4} = \frac{4}{8}$$

$$\frac{3}{3} = \frac{6}{6}$$



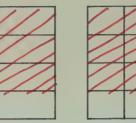
Shade the pairs of regions to show the fractions.



 $\frac{1}{3}$ 

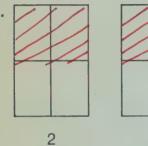






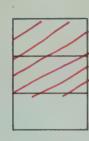








 $\frac{1}{2}$ 



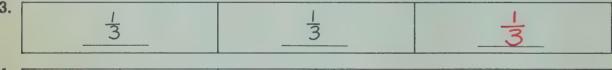






Write the fractions for the number strips.

3.



4.



5

	5.	1	1	1/2	1/2	1/2	1/2	12	12	1/2	1/2	1	12.
--	----	---	---	-----	-----	-----	-----	----	----	-----	-----	---	-----

Complete each pair of fractions. The number strips above may help you.

$$\frac{1}{3} = \frac{2}{6}$$

$$2\frac{4}{6} = \frac{8}{12}$$

$$3 \frac{2}{3} = \frac{8}{12}$$

$$\frac{2}{6} = \frac{4}{12}$$

$$\frac{3}{6} = \frac{12}{12}$$

$$6) \frac{1}{3} = \frac{4}{12}$$

$$7 \frac{1}{6} = \frac{2}{12}$$

$$8\frac{2}{3} = \frac{4}{6}$$

Write the simplest name for each fraction.

a

1. 
$$\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$$

2. 
$$\frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$$

3. 
$$\frac{2}{4} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$$

b

$$\frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$$

$$\frac{2}{12} = \frac{2 \div \mathbf{Z}}{12 \div \mathbf{Z}} = \frac{1}{6}$$

$$\frac{4}{6} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

Find the simplest name.

a

b

C

d

4. 
$$\frac{3}{6} = \frac{1}{2}$$
  $\frac{2}{8} = \frac{1}{4}$ 

$$\frac{2}{8} = \frac{1}{4}$$

$$\frac{6}{12} = \frac{1}{2}$$

$$\frac{4}{8} = \frac{1}{2}$$

Add. Write the simplest name for each sum.

a

b

C

5. 
$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$\frac{1}{6} + \frac{3}{6} = \frac{2}{3}$$

$$\frac{2}{10} + \frac{4}{10} = \frac{3}{5}$$

6. 
$$\frac{2}{12} + \frac{1}{12} = \frac{1}{4}$$

$$\frac{3}{8} + \frac{3}{8} = \frac{3}{4}$$

$$\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$$

Add or subtract. Some answers will have to be renamed.

$$1) \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

(2) 
$$\frac{4}{6} - \frac{1}{6} = \frac{1}{2}$$

$$4 \frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$

$$7 \frac{5}{8} - \frac{3}{8} = \frac{4}{4}$$

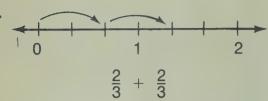
$$9 \frac{3}{8} + \frac{1}{8} = \frac{1}{2}$$

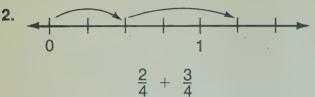
$$9 \frac{3}{8} + \frac{1}{8} = \frac{1}{2} \quad 0 \frac{2}{6} + \frac{2}{6} = \frac{2}{3} \quad 0 \frac{3}{9} - \frac{1}{9} = \frac{2}{9} \quad 0 \frac{5}{6} - \frac{2}{6} = \frac{1}{2}$$

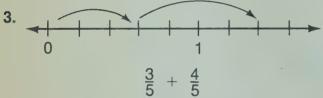
$$\frac{7}{9} - \frac{3}{9} = \frac{4}{9}$$

$$\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$$

Answer the questions for each number line.







Use >, <, or = to complete each sentence.

4.  $\frac{5}{6}$  (4) 1

5.  $\frac{4}{3}$  > 1

 $\frac{3}{2}$  ) 1

- a Is the sum more than 1? Yes
- b The sum is 1 and 3 more.
- c The sum is 13
- a Is the sum more than 1? Yes
- **b** The sum is 1 and \_\_\_\_\_ more.
- c The sum is  $\boxed{4}$
- a Is the sum more than 1? Yes
- **b** The sum is 1 and 5 more.
- c The sum is 15

$$\frac{3}{3}$$

$$\frac{5}{5}$$
  $\bigcirc$  1

$$\frac{5}{4}$$
  $\triangleright$  1

Rename each fraction.

(1) 
$$\frac{4}{3} = \sqrt{\frac{1}{3}}$$

$$3 \frac{7}{4} = 13$$

$$4\frac{11}{8} = 1\frac{3}{8}$$

$$\frac{7}{5} = 1\frac{2}{5}$$

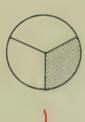
$$\frac{7}{6} = 16$$

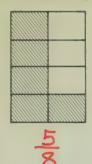
$$\frac{3}{9} = \frac{1}{3}$$

$$9 \frac{6}{2} = 3$$
  $0 \frac{8}{4} = 2$ 

$$\frac{8}{4} = 2$$

1. Write a fraction for the shaded part or for the point marked by the arrow.



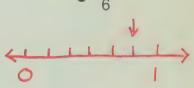




2. Draw a picture to show each fraction. Use a number line, region, or set.







3. Underline the greater fraction.

**a** 
$$\frac{1}{4}$$
 or  $\frac{3}{4}$ 

**b** 
$$\frac{3}{5}$$
 or  $\frac{2}{5}$ 

**c** 
$$\frac{7}{8}$$
 or  $\frac{3}{8}$ 

**d** 
$$\frac{3}{6}$$
 or  $\frac{5}{6}$ 

4. Add. Write your answers in simplest form.

$$a \frac{3}{5} + \frac{1}{5} = \frac{4}{5}$$

$$\mathbf{b} \, \frac{4}{9} \, + \, \frac{3}{9} \, = \, \frac{7}{9}$$

$$a \frac{3}{5} + \frac{1}{5} = \frac{\cancel{4}}{5}$$
  $b \frac{4}{9} + \frac{3}{9} = \frac{\cancel{7}}{\cancel{9}}$   $c \frac{1}{4} + \frac{1}{4} = \frac{\cancel{1}}{\cancel{2}}$   $d \frac{3}{8} + \frac{3}{8} = \frac{\cancel{3}}{\cancel{4}}$ 

$$d\frac{3}{8} + \frac{3}{8} = \frac{3}{4}$$

$$e \frac{4}{6} + \frac{2}{6} =$$

$$f(\frac{2}{3} + \frac{2}{3} = 1\frac{1}{3}$$

$$e^{\frac{4}{6}} + \frac{2}{6} = 1$$
  $f^{\frac{2}{3}} + \frac{2}{3} = 1$   $g^{\frac{5}{12}} + \frac{5}{12} = \frac{5}{6}$   $h^{\frac{6}{10}} + \frac{7}{10} = 1$ 

$$h \frac{6}{10} + \frac{7}{10} = \frac{3}{10}$$

5. Subtract. Write your answers in simplest form.

**a** 
$$\frac{4}{6} - \frac{1}{6} = \frac{1}{2}$$
 **b**  $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$  **c**  $\frac{3}{4} - \frac{1}{4} = \frac{1}{2}$  **d**  $\frac{3}{9} - \frac{2}{9} = \frac{1}{9}$ 

$$\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$$

$$c^{\frac{3}{4}} - \frac{1}{4} = \frac{1}{2}$$

$$d^{\frac{3}{9}} - \frac{2}{9} = \frac{1}{9}$$

e 
$$\frac{7}{12} - \frac{4}{12} = \frac{1}{4}$$
 f  $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$  g  $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$  h  $\frac{7}{10} - \frac{3}{10} = \frac{2}{5}$ 

$$f(\frac{2}{3}) - \frac{1}{3} = \frac{1}{3}$$

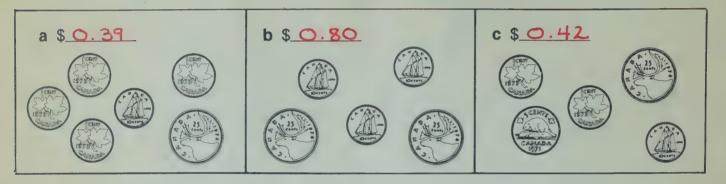
$$g \frac{4}{5} - \frac{1}{5} = \frac{3}{5}$$

h 
$$\frac{7}{10} - \frac{3}{10} = \frac{2}{5}$$

Compute.

	а	Б	С	d	е
1.	\$4.02	\$4.68	\$1.10	\$2.51	\$5.93
	+ \$5.69	+ \$2.47	+ \$3.54	+ \$9.12	+ \$4.35
	\$9.71	\$7.15	\$4.64	\$11.63	\$10.28
2.	\$6.11	\$6.47	\$8.83	\$5.00	\$5.00
	- \$3.47	- \$2.01	- \$2.14	- \$3.17	- \$1.67
	\$2.64	\$4.46	\$6.69	\$1.83	\$3.33

3. What is the value of each set of coins?



4. You are paying the salesclerk for something in a shop. What change should you get back? Use the table to help you count the change. The first one is done for you.

Cost of purchase	Amount given clerk	Pennies	Nickels	Dimes	Quarters	Dollars
Ex. \$0.67	\$1.00	111	}			
\$0.89	\$1.00	İ		1		
\$0.74	\$1.00					
\$0.63	\$1.00	11		1		
\$0.58	\$1.00	11			1	-
\$0.32	\$5.00	111	1	1	11	1111
\$1.75	\$5.00				1	111
\$2.69	\$5.00	1				11
\$6.31	\$10.00	1111	1	1	11	111

1.	Why does the cost of the same item differ at different times and in different places?  Answers may vary.  a Supply and demand
	5 Season - especially produce
	c Shipping costs
	d Taxes
	·
2.	Why do items sometimes go up in price? Give several reasons.
	Answers may vary.
	a Large demand
	6 Small supply - For example if there were a strike
	c Seasonal variations that affect the supply
	d Increased production costs or selling costs
	J
3.	How does advertising help sell items?
	Answers may vary. a Informs people of availability
	a Informs people of availability
	b Shows price - for example if low
	c Tells about advantages of product
	d Makes product seem like a necessity
	a Hakes product seem the a free sitt
4.	What do you think makes a good ad in a newspaper or magazine?
	What do you think makes a good ad in a newspaper or magazine?
	a Bold print - easily read
	b Bright colows
	c Interesting in some special way
	d Pictures

5. You bought two items.

One for \$1.69.

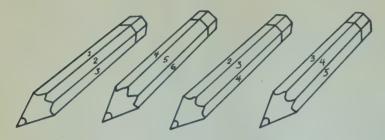
Another for \$2.35.

You gave the clerk \$10.00.

How much change should you get? \$5.96

- 1. Sue took the record out of the case and put it on the record player. She did not look to see what side was up.

  Are side 1 and side 2 equally likely outcomes?
- 2. Take four pencils. Number the six sides of each pencil 1 through 6.



- a If you rolled four pencils, what is the smallest sum you could get?
- b What is the largest sum? 24
- c Roll the pencils 48 times.

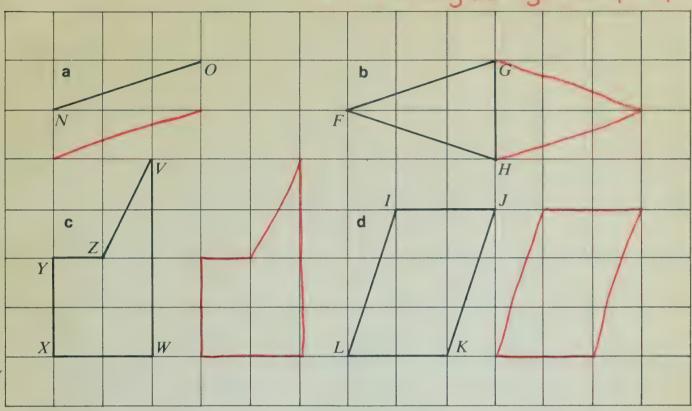
  Mark each sum in the Tally Chart. will vary.
- d Shade in the Bar Graph to show your sums.

	mber mes	Bar Graph						
-	14				,			
	12							
	10							
_	8							
_	6		:::::::::::::::::::::::::::::::::::::::	• • • •	:=:	• • • • •		
	4							
_	2			٠-٠٠.		7		
	0							
		4-6	7-9	10-12	13-15	16-18	19-21	22-24

Tally Chart					
Sum	Tally	Number			
4		0			
5	1	1			
6		0			
7	1	1			
8	1	1			
9	##	5			
10	11,	2			
11	1111	5			
12	HH 11	7			
/3	[11]	4			
14	HH 11	7			
15	////	4			
16	////	4			
17	11	2			
18	1.	1			
19	1	1			
20	//	2			
21	1	1			
22		0			
23		0			
24		0			

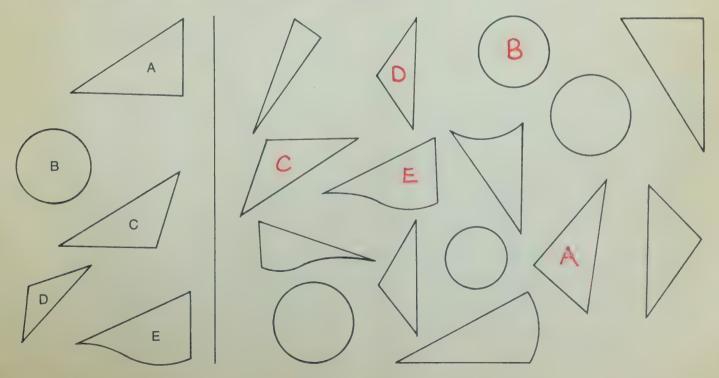
Sum

1. Draw a figure congruent to each. Positions of congruent figures may vary.



2. Trace to find the congruent figures.

Mark each congruent figure with the correct letter.



1. Mark an  $\times$  on the shapes congruent to the shape in the box. Trace the shape if you want help. 2. How many different shapes are there in pattern A? \_ Use two different shapes to make up a pattern of your own. Answers will vary. A 3. Use the pattern in B to make five different floor designs. Design 1 Design 2 В Design 3 Design 4 Design 5 4. Are the shapes in this wall design congruent? Yes

Subtract.

a

b

C

d

е

$$904 - 312 - 592$$

$$5. \quad 520 \\ - 261 \\ \hline 259$$

Compute the differences.

a

b

C

d

Add.

## Multiply.

a 1. 70 × 3 210 b 20 × 9

2. 50 × 5 250

3. 92 × 5 460

4. 46 × 7 322

53 × 8 <del>424</del>

5. 284 × 4

6. 65 × 80 5200 78 × 90 7020 97 × 60 5820 23 × 50 <del>1150</del>

7. 51 × 51 260

29 × 17 <del>493</del>

63 × 64 +032

8. 416 × 60 24 960 575 × 62 **35 650** 

8 1 9 × 3 8 31 122

Divide.

a

b

C

d

1.

13 R2 7)93 14R3 6)87 6)95

2.

83R4 9)751 56RI 8)449 78R3 4)315

3.

148 RI 5)741 84 R5 8)677 9)127

4.

489R3 4)1959

384R5 6)2309 Use >, <, or = to complete each sentence.

1.  $\frac{2}{3}$   $\sqrt{\frac{1}{3}}$ 

 $\frac{3}{5}$   $\frac{4}{5}$ 

d

 $\frac{5}{6}$   $\frac{3}{6}$ 

 $\frac{2}{4}$   $\sqrt{\frac{3}{4}}$ 

2.  $\frac{3}{4}$  >  $\frac{3}{8}$ 

 $\frac{6}{8}$   $\bigcirc$   $\frac{6}{9}$ 

 $\frac{4}{6}$   $\sqrt{\frac{4}{5}}$ 

 $\frac{8}{9}$   $\frac{8}{12}$ 

3.  $\frac{2}{3}$   $\sqrt{\frac{1}{6}}$ 

 $\frac{1}{4}$   $\left\langle \begin{array}{c} \frac{6}{8} \end{array} \right|$ 

 $\frac{1}{2}$   $\geqslant \frac{2}{8}$ 

 $\frac{4}{10}$   $\sqrt{\frac{3}{5}}$ 

Complete.

4.  $\frac{1}{3} = \frac{2}{6}$ 

 $\frac{2}{4} = \frac{1}{2}$ 

 $\frac{4}{6} = \frac{2}{3}$ 

 $\frac{3}{6} = \frac{1}{2}$ 

5.  $\frac{4}{10} = \frac{2}{5}$ 

 $\frac{5}{6} = \frac{10}{12}$ 

 $\frac{2}{2} = \frac{9}{9}$ 

 $\frac{1}{2} = \frac{1}{12}$ 

6.  $\frac{1}{3} = \frac{3}{9}$ 

 $\frac{3}{12} = \frac{1}{4}$ 

 $\frac{2}{3} = \frac{8}{12}$ 

 $\frac{4}{8} = \frac{1}{2}$ 

Write the simplest name.

7. 
$$\frac{2}{4} = \frac{1}{2}$$

$$\frac{4}{10} = \frac{2}{5}$$

$$\frac{2}{8} = \frac{1}{4}$$

$$\frac{3}{9} = \frac{1}{3}$$

8. 
$$\frac{6}{8} = \frac{3}{4}$$

$$\frac{3}{6} = \frac{1}{2}$$

$$\frac{6}{10} = \frac{3}{5}$$

$$\frac{4}{12} = \frac{1}{3}$$

Write a mixed number for each.

9. 
$$\frac{3}{2} = 1$$

$$\frac{5}{4} = 1\frac{1}{4}$$

$$\frac{7}{3} = 2\frac{1}{3}$$

$$\frac{7}{5} = \frac{2}{15}$$

10. 
$$\frac{11}{8} = 1\frac{3}{8}$$

$$\frac{11}{6} = 15$$

$$\frac{11}{10} = \frac{1}{10}$$

$$\frac{17}{12} = 15$$

11. 
$$\frac{5}{2} = 2\frac{1}{2}$$

$$\frac{13}{4} = \frac{1}{34}$$

$$\frac{10}{3} = 3\frac{1}{3}$$

$$\frac{13}{6} = 2\frac{1}{6}$$

Add.

1. 
$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$

2. 
$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

3. 
$$\frac{5}{8} + \frac{1}{8} = \frac{5}{8} = \frac{3}{4}$$

4. 
$$\frac{1}{9} + \frac{4}{9} = \frac{5}{9}$$

$$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$
  $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$ 

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$
  $\frac{3}{9} + \frac{2}{9} = \frac{5}{9}$ 

$$\frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{2} + \frac{3}{12} = \frac{10}{12} = \frac{5}{10}$$

$$\frac{7}{100} + \frac{3}{100} = \frac{10}{100} = \frac{1}{10} + \frac{4}{9} = \frac{5}{9}$$

$$\frac{1}{10} + \frac{5}{10} = \frac{6}{10} = \frac{3}{5}$$

$$\frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$$

$$\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$$

$$\frac{13}{100} + \frac{12}{100} = \frac{2.5}{100} = \frac{1}{4}$$

Subtract.

5. 
$$\frac{3}{8} - \frac{1}{8} = \frac{2}{8} = \frac{1}{4}$$

6. 
$$\frac{5}{5} - \frac{2}{5} = \frac{3}{5}$$

7. 
$$\frac{7}{9}$$
 -  $\frac{2}{9}$  =  $\frac{5}{9}$ 

$$8 \frac{3}{12} - \frac{1}{12} = \frac{2}{12} = \frac{1}{6}$$

$$\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$$

$$\frac{5}{6} - \frac{1}{6} = \frac{4}{5} = \frac{2}{3}$$

$$\frac{2}{2} - \frac{1}{2} = \frac{1}{2}$$
  $\frac{3}{6} - \frac{2}{6} = \frac{1}{6}$ 

$$\frac{4}{9} - \frac{1}{9} = \frac{3}{9} = \frac{3}{3}$$

$$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

$$\frac{5}{6} - \frac{1}{6} = \frac{4}{10} = \frac{2}{3}$$
  $\frac{5}{10} - \frac{3}{10} = \frac{2}{10} = \frac{1}{5}$   $\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$ 

$$\frac{3}{2} - \frac{2}{2} = \frac{1}{1}$$

$$\frac{9}{10} - \frac{5}{10} = \frac{4}{10} = \frac{2}{5}$$

$$\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$$
  $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$   $\frac{58}{100} - \frac{32}{100} = \frac{26}{100} = \frac{13}{50}$ 

$$\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$$

$$\frac{11}{12} - \frac{3}{12} = \frac{8}{12} - \frac{2}{3}$$

$$8 \frac{3}{12} - \frac{1}{12} = \frac{2}{12} = \frac{1}{6} \quad \frac{4}{9} - \frac{1}{9} = \frac{3}{9} = \frac{1}{3} \quad \frac{9}{10} - \frac{5}{10} = \frac{4}{10} = \frac{24}{100} = \frac{$$

Add or subtract. Watch the signs.

9. 
$$\frac{3}{5} + \frac{2}{5} = \frac{5}{5} = 1$$

9. 
$$\frac{3}{5} + \frac{2}{5} = \frac{5}{5} = 1$$
  $\frac{7}{12} + \frac{2}{12} = \frac{9}{12} = \frac{3}{4} + \frac{2}{12} = \frac{1}{12} = \frac{1}{12}$   $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ 

$$\frac{2}{12} - \frac{1}{12} = \frac{1}{12}$$

$$\frac{3}{3} - \frac{2}{3} = \frac{1}{3}$$

$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$

10. 
$$\frac{27}{100} - \frac{21}{100} = \frac{3}{50} = \frac{6}{9} + \frac{2}{9} = \frac{8}{9}$$
  $\frac{3}{3} - \frac{2}{3} = \frac{1}{3}$   $\frac{6}{8} - \frac{1}{8} = \frac{5}{8}$ 

11. 
$$\frac{4}{10} + \frac{4}{10} = \frac{8}{10} = \frac{4}{5}$$
  $\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$   $\frac{21}{100} + \frac{29}{100} = \frac{50}{100} = \frac{1}{2}$   $\frac{2}{6} - \frac{1}{6} = \frac{1}{6}$ 

$$\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$$

$$\frac{21}{100} + \frac{29}{100} = \frac{50}{100} = \frac{1}{2}$$

$$\frac{2}{6} - \frac{1}{6} = \frac{1}{6}$$

12. 
$$\frac{2}{3} + \frac{1}{3} = \frac{3}{3} = 1$$
  $\frac{5}{12} - \frac{3}{12} = \frac{2}{12} = \frac{1}{6}$   $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$   $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ 

$$\frac{5}{12} - \frac{3}{12} = \frac{2}{12} = \frac{1}{6}$$

$$\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$$

$$\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$$

indicates a Checkout page.
indicates a Progress Check page.

QA 107 S42 1974 LEV-4 PR-SHTS-TCH-ED-SCIENCE RESEARCH ASSOCIATES SRA MATHEMATICS LEARNING 39185871 CURR



## INDEX

PRACTI		TEXT	PRACTICE SHEET	TITLE	TEXT PAGE
1	Comparing numbers	3	□40 Reviewing fr	actions	144
2	Understanding place value	6	41 Finding shar		
• 3	Using place value	7	environme		148
4	Rounding numbers	12	☐42 Identifying t	riangular	
• 5	More rounding	13	prisms		152
□ 6	Reviewing numeration and		☐ 43 Naming geor	metric solids	159
	rounding	20	44 Adding 2- a	nd 3-digit	
7	Estimating sums	24	numbers		165
• 8	Adding 2-digit numbers	27.	45 Adding 4-dig	git numbers	168
9	Addition with 3-digit numbers	30	46 Column addi	ition	170
•10	Reviewing addition	31	47 Subtracting	2- and 3-digit	
11	Estimating differences	33	numbers		173
•12	Practising subtraction	36	48 Subtracting	4-digit numbers	175
13	Adding to check subtraction	42	49 Using 1-digit	t multipliers	178
□14	Reviewing addition and		50 Multiplying	with multiples	
	subtraction	45	of 10		180
15	Using multiplication	53	51 Multiplying	with 2-digit	
•16	Reviewing multiplication facts	57	numbers		182
17	Finding the missing factor	60	52 Multiplying	2- and 3-digit	
18	Practising division facts	66	numbers		184
•19	Reviewing division facts	68	□ 53 Practising co	omputation –	188
20	Mixed practice with one		54 Preparing fo	r division	193
	and zero	71	55 Using subtra	action in division	196
□21	Multiplication and division —		56 Estimation in	n division	199
	practice	72	•57 Estimating q	uotients	204
22	Measuring length	79	58 Divisi		208
•23	Selecting units of measure	83	•59 N		
24	Adding and subtracting		□60		
	measurements	85	•61		
•25	More computation with		•62		
	measurements	86	•63		
26	Time measurements	92			
27	Measurements of length		<b>6</b>		
	and time	96	QA 107 S	42 1974 Lev	.4 pr.shts.
28	Multiplying with a 1-digit		6 tch.ed.		
	multiplier	105	•6 Science	Research Ass	ociates.
•29	Practising multiplication	106	•6 SRA M	athematics l	earning
30	Multiplying with 3-digit	460			25T CURR
	numbers	112	•6		
31	Multiplying two 2-digit	460			
	numbers	116	3		
•32	Using multiplication skills	117			
33	Extending multiplication	118	4		
□34	Practising multiplication	400			
	again	120	1		
35	Naming fractions	126			
•36	Ordering fractions	128	1		
37	Adding fractions with the	105	1		
	same denominator	135	4		
•38	Subtracting fractions with	140	1		
-	the same denominator	140	1		
• 39	Extending understanding	140			
1	of fractions	143			

